



BOM.101.E - BOM - Bill Of Material End User Training

1 - Bill of Material Management (BOM)

1.1 - BOM Management

A bill of materials, which is a list of materials, can be considered as a recipe defining the hierarchical structures and quantities of semi-products and/or raw materials required to produce a product. This module allows BOMs to be created, copied, modified and controlled.

2 - Bill of Material General Management Processes

2.1 - Creating a New Bill of Material (Standart)

Create a new normal bill of material

2.2 - Creating a New Bill of Material (Alternative)

Creating a New Bill of Material (Alternative)

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It is used to list the Bill of Materials available in the CaniasERP system.

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To delete BOM

2.8 - Adding Multi Materials

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A.1 - Break

A.2 - Workshop

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Defining different variant properties to BOM material and components to enable connection between these properties for variant transfer

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The process of fixing the BOM component variant by using variant transfer methods

The process of fixing the BOM component variant by using variant transfer methods

3.1 - Variant Transfer: From product variant option to component variant option

Transferring product variant to component in BOM

B.1 - Break

4 - Bill of Material Batch Management Processes

4.1 - Changing Material

Doing multiple and simultaneous changes in items in BOM

4.2 - Search Add/Remove Item to/from BOM

It is possible to select from the existing BOMs and add a single element (raw material / semi-product) to these selected BOMs.

4.3 - Add Component

To choose among BOMs and add a single component to the selected BOM

4.4 - Remove Component

Removing multiple components from BOMs

5 - Bill of Material Reporting Processes

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5.2 - Print Material Usage Report

5.3 - Search Bill of Material Level List

Listing, reporting and printing of BOM levels as structural and level-wise according to different parameters such as material, BOM alternative.

6 - Production Template Management Process

6.1 - Production Template

It is used to manage BOM and route applications together; to define the sub-items of a product and the operations in which these sub-items are consumed.

C.1 - Workshop

D.1 - Exam

1 - Bill of Material Management (BOM)

1.1 - BOM Management

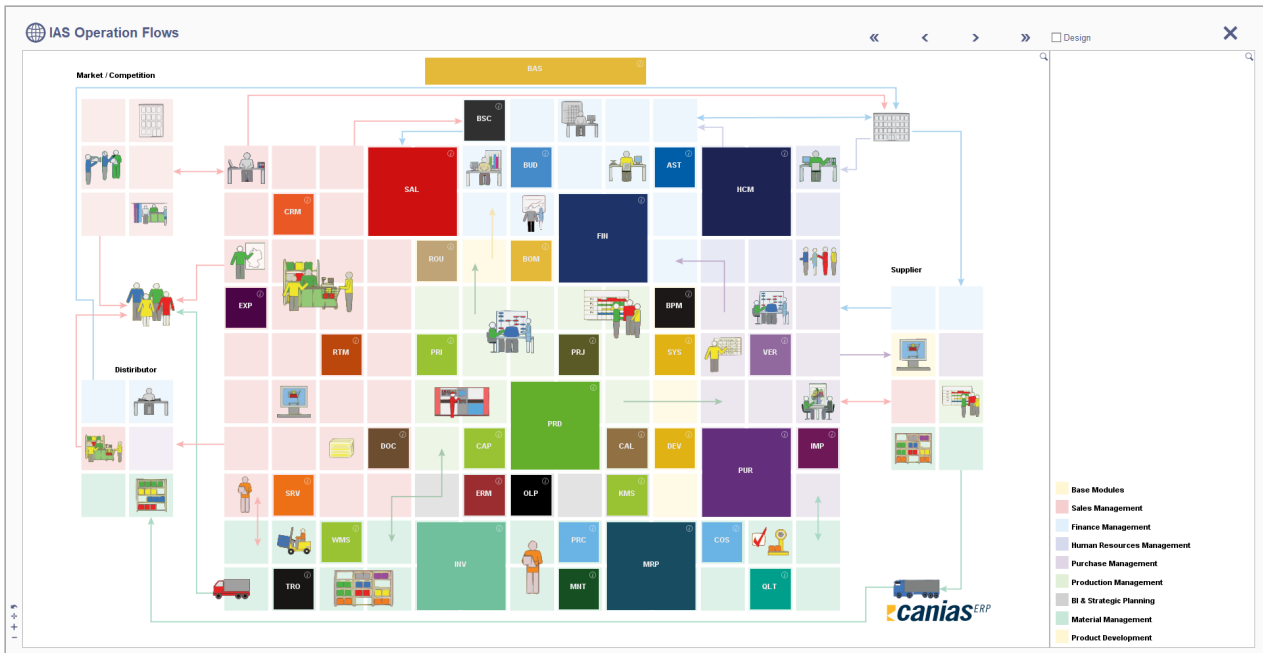
A bill of materials, which is a list of materials, can be considered as a recipe defining the hierarchical structures and quantities of semi-products and/or raw materials required to produce a product. This module allows BOMs to be created, copied, modified and controlled.



BOM

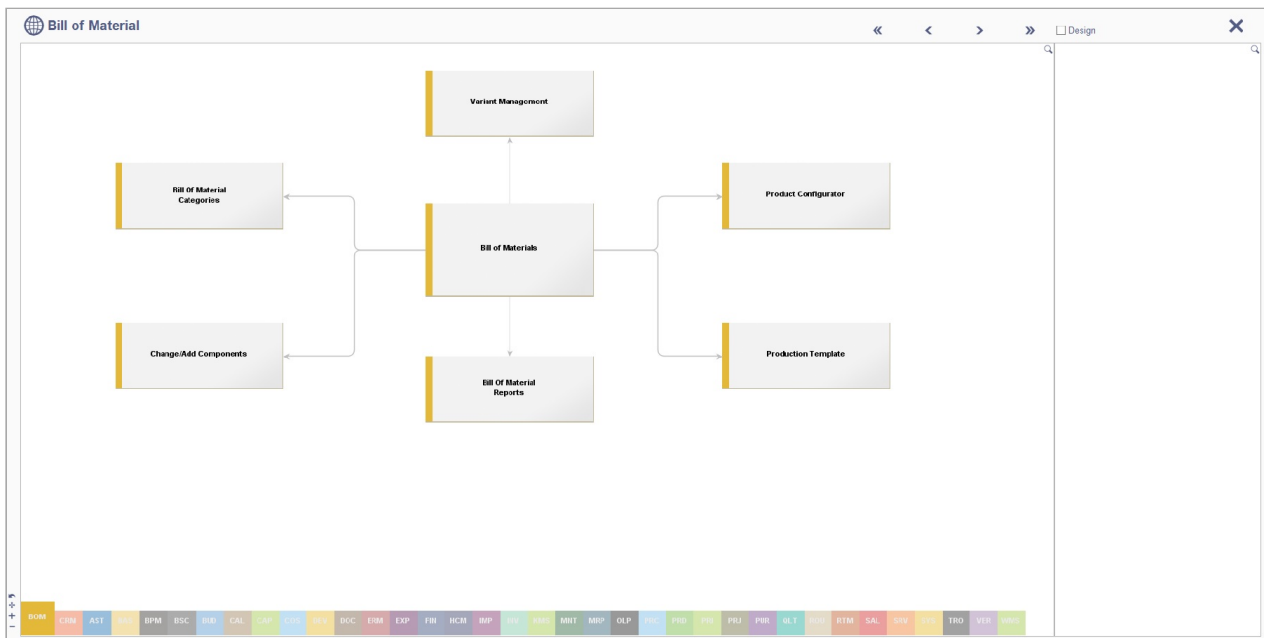
Bill of Materials MANAGEMENT

In CaniasERP, **Bill of Materials Management (BOM)** module is used to display and manage the information about the materials used in production. A bill of materials, which is a list of materials, can be considered as a recipe defining the hierarchical structures and quantities of semi-products and/or raw materials required to produce a product. This module allows BOMs to be created, copied, modified and controlled.



With this module, the BOMs can be combined into hierarchical and multi-level BOMs depending on the complexity of the product (the number of semi-products required for its production) to be produced. If there is a common semi-product used in the production of more than one product in the enterprise, a single BOM record can be created for this common semi-product and then be

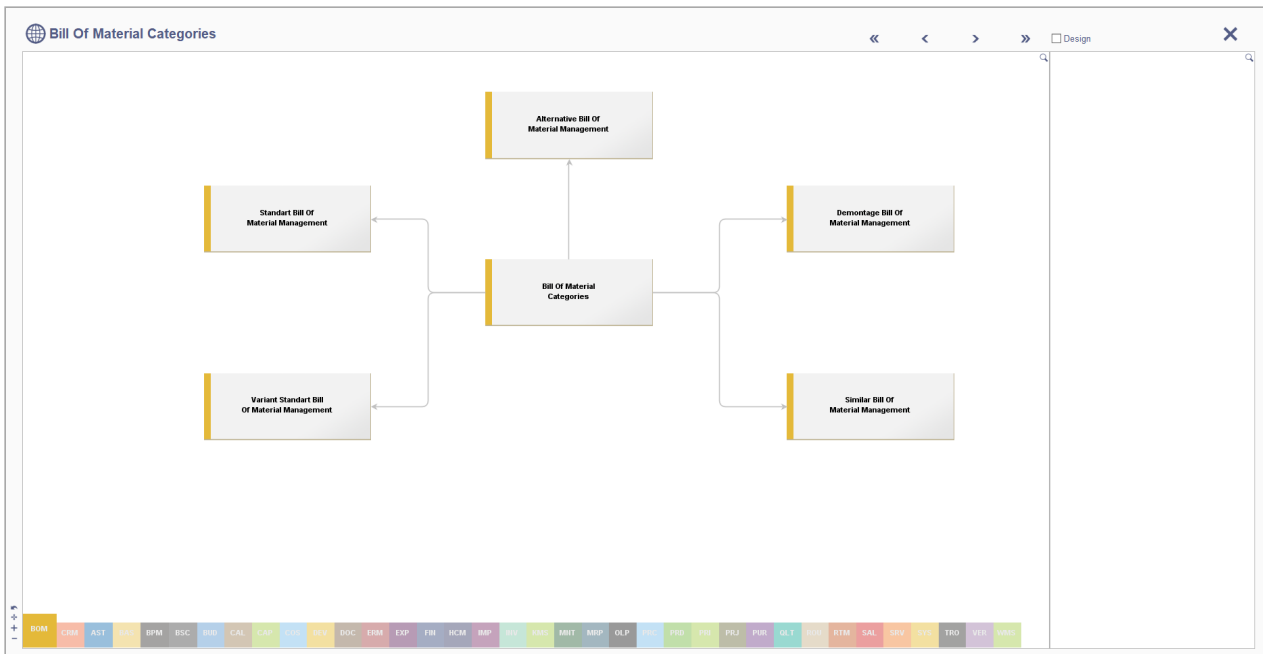
associated with the products to be used. Variant Management enables the materials saved in the system to be differentiated in terms of user-specified properties. For example, one of the variant features of a shirt to be produced can be body size of the shirt, and the options of this feature may be Small, Medium, Large. These variant configurations apply to every module as well as the Bill of Materials Management module. In this way, a large number of features and a large number of options depending on the feature can easily be managed throughout the system with a single material card, BOM and route base data. Options such as length, thickness or volume – which can have different values in each transaction – can also be defined and managed as variants.



BOMs, which are used as reference in the calculation of the semi products and raw material requirements to be determined for Material Requirements Planning module, are also used effectively in processes such as external procurement. In this process, the relevant materials in the BOM can be sent from stock to subcontractors for use.

In conjunction with the Routing Management module, the system creates a production network and displays this network graphically when prompted. Thus, even complex BOMs and routes can be created clearly at different levels. Copying the components of an existing BOM into new BOMs makes workflow easier. Similar materials or structures can be created more easily by referring to the defined BOMs.

The following graph shows the interaction between the BOM and the other modules in the system.



Validity Definition

Each BOM created in the Bill of Materials Management Module is valid under the conditions defined for it. For example, the components that make up the product are required to be used depending on the batch size to which the product is to be produced. Thus, various components can be used for different production batches. Time limits can be made to define the desired structures for specific periods. There may be more than one way of production of a manufactured product within an enterprise. These different types of production can be defined in the system as production alternatives.

The BOM can be used not only for production, but also for sales. The product sets, which are formed by combining more than one product, can be defined as BOMs; They can be sold by entering only the BOM title. Even after the start of production, the relevant BOMs can be changed and these changes can be reflected in open production orders. Thus, product design and production processes can be executed together, if desired.

Audit Down to the Lowest Level

A wide range of configuration options in the BOM Management Module is not limited to only the level of the BOM. In contrast, configurations can be maintained up to each component level. Item types that can be defined freely allow the user to manage each material individually. The components in a BOM that will be used in production and design should have different properties. Thanks to the predefined component properties specified on the module, the separation of these components can be easily done when configuring a BOM. It is possible to define the input quantity for each component. For example, for each X product quantity unit, the Y component quantity unit is required. The units do not have to be the same here. There is also the option to determine the amount of consumption for the components according to the defined formulas. Flexibility in component management also applies to by-products that may occur during production. By-products may be identical or completely different to the product, and cost sharing features can be determined accordingly.

Comprehensible Structure –Easy to Use

Bill of Material Management module is a highly effective tool for working comfortably on complex structures within production. Ergonomic applications with important functions provide ease of use and advantages. Bulk change of components in multiple BOMs or all BOMs, presence of components in all or department specific BOMs, or addition of new components to the desired data records are only a few of these advantages. The open structure of the caniasERP system also enables communication with external systems (e.g. a CAD software). Thus, BOMs and even

materials can be created and modified in an external system. This interaction is done through the Electronic Data Interchange module.

Integration

The Bill of Material Management module, which can be integrated with other processes in the caniasERP system, plays a key role in basic manufacturing processes with integration to other production modules such as Routing Management and Production Management; It also creates the basis for Material Requirements Planning, Sales Management, Purchase Management, Inventory Management and Standard Cost Management modules.

Features Overview

- Complete integration into production plans and production
- Validations based on time and lot size
- Component-level control
- Expandable BOMs
- Co-production
- Alternative BOMs
- Dismantling (Demontage) BOMs
- Variant Management
- Different measure units
- Determination of quantity based on formulas
- Ergonomic use (Batch updates)
- Sales and procurement BOMs (Product sets)

2 - Bill of Material General Management Processes

2.1 - Creating a New Bill of Material (Standart)

Create a new normal bill of material

Bill Of Material List

Company: 11 Plant: 01 BOM Number: Material Num.: BS0103E Description: Deleted: ☐ Planner:

Alternum: Construction Department BOM Type: BOM Categ: BOM Status: Valid From: 28.08.2019 Language: E

Company	Plant	Alternum	BOM Number	Material	Description	Valid From	Valid Until	BOM Categ	BOM Type	BOM Status	Variant
1											

Table Chart Pivot Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

1. Access BOMT01 - Bill of Materials Management transaction, and click the "New" button.

New Bill Of Material

Company: 11 Plant: 01 BOM Categ.: 1 BOM Number: BS0103E-1 Material Num.: BS0103E-1 Alternum: 00

Valid From: 28.08.2019

Buttons: [Checkmark] [X]

2. Select the company, plant, BOM category, enter BOM name and BOM item number, alternative number if there's one, and the date. Click the "Confirm" button.

Bill Of Material Information

Company: 11 Plant: 01 BOM Number: BS0103E-1 Material Num.: BS0103E-1

B. Quantity: 0.0000 Min. Lot Size: 100.000.0000 City Unit: PCS

Valid From: 28.08.2019 Valid Until: 01.01.2020 Description: Gear Hardware

Buttons: [BOMDiagram] [Print] [Save] [X]

Tabs: General | **Items** | Comments | Documents

Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod. ?
1	10	1	00	1.000					

Buttons: [Add Items] [Options] [Copy Items] [F4]

Table | Chart | Pivot

Status: Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

3. Switch to the General tab.

Bill Of Material Information

Company: 11 BOM Number: BS0103E-1 Material Num.: BS0103E-1
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternun: 00 Max. Lot Size: 100,000.0000 Qty Unit: PCS
 Valid From: 28.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General **Items** **Comments** **Documents**

Bill Of Material Header Information

General Information

BOM Categ: 1 BOM Type: 2 Description: Semi Product BOM
 Item Interval: 10 Construction Dep.: 1 Description: Standard
 Main Prod.Factor: 1.000 BOM Status: 1 Description:
 Deleted: ☐

Drawing Number:
 Dimension:
 Cust. Num.:
 CAD: ☐

Long Text

Created By: Changed By:

4. Determine the mandatory fields that are BOM type, Construction Department, and BOM status. Switch to the Items tab.

Bill Of Material Information

Company: 11 BOM Number: BS0103E-1 Material Num.: BS0103E-1
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternun: 00 Max. Lot Size: 100,000.0000 Qty Unit: PCS
 Valid From: 28.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General **Items** **Comments** **Documents**

Bill Of Material Items

Add Items Options Copy Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt Desc.	Is Ext. Opr. Prod.?
1	10 1	BR0211E	00	2.0000	M	Chain			<input type="checkbox"/>
2	20 1	BR0210E	00	2.0000	M	Wire			<input type="checkbox"/>

E BOM 138 Info

i BOM 11 01 BS0103E-1 00 was updated successfully!

OK

Table Chart Pivot Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

5. On the Items tab, enter the material numbers of BOM's sub-items and their quantities that'll be used. The Base Quantity field can be used to determine a quantity rate between the BOM and its sub-items. Click the "Save" button to save the relevant BOM.

2.2 - Creating a New Bill of Material (Alternative)

Creating a New Bill of Material (Alternative)

1 - On BOMT01 - Bill of Material List transaction, click "New" button.

2 - Enter the Company, Plant, BOM Category, BOM Number, the Material Number, Alternum, if there's one, and the Date for the BOM to be created.

Click "Confirm" button after entering the relevant information.

Bill Of Material Information - Alternative

Company: 11 BOM Number: BS0103 Material Num.: BS0103
 Plant: 01 Min. Lot Size: 0.000 B. Quantity: 1.000
 Alternum: 03 Max. Lot Size: 100,000,000 Qty Unit: AD
 Valid From: 01.01.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents

Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Descri...	Options List	Fixed Alt. Desc.	Is Ext. Opr.	Prod. ?
1	10	1	00	1.000						

Table Chart Pivot

Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

3 - Switch to the General tab.

Bill Of Material Information - Alternative

Company: 11 BOM Number: BS0103E Material Num.: BS0103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternum: 01 Max. Lot Size: 100,000,000 Qty Unit: PCS
 Valid From: 16.10.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents

Bill Of Material Header Information

General Information

BOM Categ.: 2 BOM Type: 1 Description: Product BOM
 Item Interval: 10 Construction Dep.: 1 Description: Standard
 Main Prod Factor: 1.000 BOM Status: 1 Description:
 Deleted: ☐

Drawing Number:
 Dimension:
 Cust. Num.:
 CAD: ☐

Long Text

Created By: Changed By:

4 - Determine BOM Type, Construction Dep., BOM Status. Then, switch to the Items tab.

Bill Of Material Information - Alternative

Company: 11 BOM Number: BS0103E Material Num: BS0103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternum: 01 Max. Lot Size: 100,000,000 Qty Unit: PCS
 Valid From: 10.10.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐


General Items Comments Documents

Bill Of Material Items

Add Items Options Copy Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod.?
1	10 1	BR0210E	00	1.2000	M	Wire			<input type="checkbox"/>
2	20 1	BR0211	00	1.0000	M	Chain			<input type="checkbox"/>

E BOM 138 Info

 BOM 11 01 BS0103E 01 was updated successfully!

OK

Table Chart Pivot

Set: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

5 - In the Items tab, the material codes of the materials that are sub-items of the BOM and how much to use in the BOM are written and sub-items are added. If desired, the ratio between the BOM and its sub-items can also be determined through the Base Quantity field on the header section.

Click "Save" button to save the BOM.

2.3 - Searching a Bill of Material

It is used to list the Bill of Materials available in the CaniasERP system.

Bill Of Material List

Company: 10 Plant: 01 BOM Number: Material Number: Description: Deleted: ☐
 Alter.Num.: Department: Type: Category: Status: Date: 20.09.2017 Language: E MRP Controller:

	CC	PC	Alt	BOM Number	Material	Description	Valid from	Valid until	Cat	Type	Sta
1	10	01	00	BF0101	BF0101	Wheel Group	01.01.2017	01.01.2030	S	S	S
2	10	01	00	BM0001	BM0001	Security Kit - 01	17.08.2017	01.01.2030	S	P	H
3	10	01	00	BM0002	BM0002	Security Kit - 02	01.01.2017	01.01.2030	S	P	H
4	10	01	00	BM0101	BM0101	Helmet - 01	01.01.2017	01.01.2030	S	S	H
5	10	01	00	BM0102	BM0102	Kneepad - 01	01.01.2017	01.01.2030	S	S	H
6	10	01	00	BM0201	BM0201	Water Bowl	01.01.1975	01.01.2030	S	P	S
7	10	01	00	BMV001	BMV001	Security Kit - 01	15.08.2017	01.01.2030	S	P	H
8	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S
9	10	01	01	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
10	10	01	CD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	D	P	S
11	10	01	SD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
12	10	01	00	BP0001PSET	BP0001PSET	Bicycle - Product Set	23.08.2017	01.01.2030	P	P	P
13	10	01	00	BR02-PALETTE	BR02-PALETTE	PALETTE	24.08.2017	01.01.2030	S	P	S
14	10	01	00	BR0202	BR0202	Saddle	24.08.2017	01.01.2030	P	P	S
15	10	01	00	BS0101	BS0101	Painted Squad	01.01.2017	01.01.2030	S	S	S
16	10	01	00	BS0101-1	BS0101-1		01.01.2017	01.01.2030	S	S	S
17	10	01	00	BS0102	BS0102		01.01.2017	01.01.2030	S	S	S
18	10	01	01	BS0102	BS0102	Pedal Set	01.01.2017	01.01.2030	A	S	S
19	10	01	00	BS0102-1	BS0102-1	Pedal Set	01.01.2017	01.01.2030	S	S	S
20	10	01	00	BS0103	BS0103	Gear Hardware	25.07.2017	01.01.2030	S	P	S
21	10	01	00	BS0103-1	BS0103-1	Gear Hardware	01.01.2017	01.01.2030	S	P	S
22	10	01	00	KL0006	KL0006	Watch	23.08.2017	01.01.2030	S	P	S
23	10	01	00	MNT-BR	MNT-BR	Internal Maintenance Method	01.01.2017	01.01.2030	S	P	S
24	10	01	00	MNT-INT	MNT-INT	Internal Maintenance Method	01.01.2017	01.01.2030	S	S	S
25	10	01	00	PRESS	PRESS	Press Machine	01.01.2017	01.01.2030	S	S	S

Table Chart Pivot

Set: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

1- Use the search bar to navigate to **BOMT01**. The desired Bill of Material can be listed by filling the parameters (Company, Plant, Material No., MRP Controller, Department, Type, etc.) in the search section. If only the Company field is filled and the "search" button is clicked, all bill of materials available in the system are listed.

Bill Of Material List

Company	Plant	BOM Number	Material Number	Description	Deleted
10	01		bp0001		<input type="checkbox"/>

Alter.Num. 00 Department Type Category Status Date 20.09.2017 Language E MRP Controller

Variant

	CC	PC	Alt	BOM Number	Material	Description	Valid from	Valid until	Cat	Typ	Sta
1	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S

2- To find specific bill of material, click the "search" button after the data has been entered in the relevant search parameters.

Bill Of Material List

Company	Plant	BOM Number	Material Number	Description	Deleted
10	01		BS0102		<input checked="" type="checkbox"/>

Alter.Num. 00 Department Type Category Status Date 20.09.2017 Language E MRP Controller

Variant

	CC	PC	Alt	BOM Number	Material	Description	Valid from	Valid until	Cat	Typ	Sta
1	10	01	00	BS0102	BS0102		01.01.2017	01.01.2030	S	S	S

3- To display the deleted bill of material, activate the "**Delete**" check box and press the "**Search**" button.

2.4 - Showing a Bill of Material

To show available BOMs and their details

Bill Of Material List

Company

Plant

BOM Number

Material Number

Description

Deleted

10

01

Alter.Num.

Department

Type

Category

Status

Date

Language

MRP Controller

20.09.2017

E

1- Access BOMT01 Bill of Material List transaction to list the existing BOM in the CANIAS ERP system. Fill the search parameters in the search section, click the "search" button and the Bill of Material will be listed. To show the detail of any BOM, select the relevant record and click "show" button.

Bill Of Material Information

Company

Plant

Alternative Number

Valid From

Description

10

01

00

25.07.2017

Gear Hardware

BOM Number

Lot From

Lot Until

Valid Until

BS0103

01.01.2030

Material Number

Base Quantity

Quantity Unit

Update For PO

Demontage

BS0103

1.000

☐

gOMDiagram

General

Items

Comments

Documents

Bill Of Material Items

Add Items

Options

Copy Items

Item	T	Component	Jobnr	Quantity	Unit	Description	Fixed Attributes	Fixed Alt Desc.	Ext. Opt. Pro.	
1	10	2	BR0211	00	1.200	M	Chain			<input type="checkbox"/>
2	20	1	BR0210	00	2.000	M	Wire			<input type="checkbox"/>

Table

Chart

Pivot

Set

Sum

Avg

Max

Min

2- The items of the BOM appear on the Bill of Material Information screen. No changes can be done here because the details has been accessed with the Show on Detail screen button.

2.5 - Updating a Bill of Material

To modify a previously created BOM

The screenshot shows the 'Bill Of Material List' SAP interface. The search criteria at the top are: Company 11, Plant 01, BOM Number, Material Num. BS0103E, Description, Deleted checkbox, Alternun, Construction Department, BOM Type, BOM Categ., Bom Status, Valid From 28.08.2019, Language E, and Planner. The table below is empty, with columns: Company, Plant, Alternun, BOM Number, Material, Description, Valid From, Valid Until, BOM Categ., BOM Type, Bom Status, and Variant. The status bar at the bottom shows 'Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0'.

1. In order to make changes to a Bill of Materials, access **BOMT01 - Bill of Material Management** transaction. Using the search criteria, search for the BOM to be changed, and then click the "Search" button.

The screenshot shows the 'Bill Of Material List' SAP interface with search results. The search criteria are the same as in the previous screenshot. The table now contains one row with the following data: Company 11, Plant 01, Alternun 00, BOM Number BS0103E, Material BS0103E, Description Gear Hardware, Valid From 27.08.2019, Valid Until 01.01.2030, BOM Categ. 1, BOM Type 2, Bom Status 1, and Variant. The status bar at the bottom shows 'Sel: 11 Sum: 16 Avg: 2.667 Max: 11 Min: 0'.

2. Select the row of the BOM, and click the "Change" button in order to access its details.

Bill Of Material Information

Company: 11 BOM Number: BS0103E Material Num.: BS0103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Altern.: 00 Max. Lot Size: 100.000.0000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents

Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod. ?
1	10 2	BR0210E	00	1.2000	M	Wire			<input type="checkbox"/>
2	20 2	BR0211E	00	3.0000	M	Chain			<input type="checkbox"/>

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

3. On the detail screen, fields where no changes can be made are colored in a faded gray color to show they're in a passive state. After making the relevant changes, click the "Save" button to save the BOM.

Bill Of Material Information

Company: 11 BOM Number: BS0103E Material Num.: BS0103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Altern.: 00 Max. Lot Size: 100.000.0000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents


Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod. ?
1	10 2	BR0210E	00	1.2000	M	Wire			<input type="checkbox"/>
2	20 2	BR0211E	00	3.0000	M	Chain			<input type="checkbox"/>

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

E BOM 138 Info

 BOM 11 01 BS0103E 00 was updated successfully!

Confirmation message stating that the changes have been saved appears.

2.6 - Printing a Bill of Material

To print BOM

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☐

Alter.Num.: Department: Type: Category: Status: Date: 18.08.2017 Language: E MRP Controller:

Variant:

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1											

Table View Chart View Pivot View

1- In the CaniasERP system the Bill of Material is managed via the **BOMT01 - Bill of Material List** transaction, which is the main transaction of the module.

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☐

Alter.Num.: Department: Type: Category: Status: Date: 18.08.2017 Language: E MRP Controller:

Variant:

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1	10	01	00	BF0101	BF0101	Wheel Group	01.01.2017	01.01.2030	S	S	S
2	10	01	00	BM0001	BM0001	Security Kit - 01	17.08.2017	01.01.2030	S	P	H
3	10	01	00	BM0002	BM0002	Security Kit - 02	01.01.2017	01.01.2030	S	P	H
4	10	01	00	BM0101	BM0101	Helmet - 01	01.01.2017	01.01.2030	S	S	H
5	10	01	00	BM0102	BM0102	Kneepad - 01	01.01.2017	01.01.2030	S	S	H
6	10	01	00	BMV001	BMV001	Security Kit - 01	15.08.2017	01.01.2030	S	P	H
7	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S
8	10	01	01	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
9	10	01	BD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
10	10	01	DD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	D	P	S
11	10	01	00	BS0101	BS0101	Painted Squad	01.01.2017	01.01.2030	S	S	S
12	10	01	00	BS0101-1	BS0101-1	Painted Frame	01.01.2017	01.01.2030	S	S	S
13	10	01	01	BS0102	BS0102	Pedal Set	01.01.2017	01.01.2030	A	S	S
14	10	01	00	BS0103	BS0103	Gear Hardware	25.07.2017	01.01.2030	S	P	S
15	10	01	00	BS0103-1	BS0103-1	Gear Hardware	01.01.2017	01.01.2030	S	P	S
16	10	01	00	MNT-BR	MNT-BR	Internal Maintenance M...	01.01.2017	01.01.2030	S	P	S
17	10	01	00	MNT-INT	MNT-INT	Internal Maintenance M...	01.01.2017	01.01.2030	S	S	S
18	10	01	00	PRESS	PRESS	Press Machine	01.01.2017	01.01.2030	S	S	S

Table View Chart View Pivot View

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

2- To display an existing Bill of Material in the system, the BOM are listed using search parameters at the top of the transaction's first screen.

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☐

Alter.Num.: Department: Type: Category: Status: Date: 18.08.2017 Language: E MRP Controller:

Variant:

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S
2	10	01	01	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
3	10	01	BD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
4	10	01	DD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	D	P	S

Table View Chart View Pivot View Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

3- This screen shows the BOM to be printed using the material number search parameter. Select the relevant record and click the **"Print"** button.

2.7 - Deleting a Bill of Material

To delete BOM

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☐

Alter.Num.: Department: Type: Category: Status: Date: 18.08.2017 Language: E MRP Controller:

Variant:

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1											

Table View Chart View Pivot View

1- BOM in the CaniasERP system are managed through the **BOMT01** transaction, the main transaction of the module.

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☐

Alter.Num.: Department: Type: Category: Status: Date: 18.08.2017 Language: E MRP Controller:

Variant:

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S
2	10	01	01	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
3	10	01	BD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	A	P	S
4	10	01	DD	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	D	P	S

Table View Chart View Pivot View Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

2- On the first screen of the transaction, the BOM can be listed using search parameters at the top of the screen. In this screen, the BOM to be deleted is found with the help of the search number of the material number and the detail screen is changed with the **"Change"** button.

Bill Of Material Information

BOMDiagram

Company: 10 BOM Number: BP0001 Material Number: BP0001 Base Quantity: 1.000

Plant: 01 Lot From: 0.000

Alternative Number: 00 Lot Until: 100,000.000 Quantity Unit: AD

Valid From: 01.01.2017 Valid Until: 01.01.2030 Update For PO: ☐

Description: Bicycle Demontage: ☐

General Items Comments Documents

Bill Of Material Header Information

General Information

Category: S Type: P Description: Product BOM

Item Interval: 10 Construction Department: S Description: Standard

Main Prod.Factor: 1.000 Status: S Description: Standard Product Tree (Without History)

Delete: ☒

Draw Num.:

Dimension:

Customer:

CAD: ☐

Long Text

Created By/At: ier 17.07.2017 16:55 Changed By/At: naycan 06.10.2017 15:23

3- Select the "Delete" check box to delete the record.

Bill Of Material Information

Company: 10 BOM Number: BP0001 Material Number: BP0001
 Plant: 01 Lot From: 0.000 Base Quantity: 1.000
 Alternative Number: 00 Lot Until: 100,000,000 Quantity Unit: AD
 Valid From: 01.01.2017 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Bicycle Demontage: ☐

General Items Comments Documents

Bill Of Material Header Information

General Information

Category: 5 Type: P Description: Ürün Reçeteleri
 Item Interval: 10 Construction Department: Standard
 Main Prod.Factor: 1.000 Status: Standard Product Tree (Without History)
 Delete: ☒

Draw Num.:
 Dimension:
 Customer:
 CAD: ☐

Long Text

Created By/At: ier 17.07.2017 16:55 Changed By/At: naycan 17.08.2017 19:38



4- Press "Save" button.

Bill Of Material Information

Company: 10 BOM Number: BP0001 Material Number: BP0001
 Plant: 01 Lot From: 0.000 Base Quantity: 1.000
 Alternative Number: 00 Lot Until: 100,000,000 Quantity Unit: AD
 Valid From: 01.01.2017 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Bicycle Demontage: ☐

General Items Comments Documents

Bill Of Material Header Information

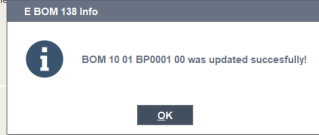
General Information

Category: 5 Type: P Description: Ürün Reçeteleri
 Item Interval: 10 Construction Department: Standard
 Main Prod.Factor: 1.000 Status: Standard Product Tree (Without History)
 Delete: ☒

Draw Num.:
 Dimension:
 Customer:
 CAD: ☐

Long Text

Created By/At: ier 17.07.2017 16:55 Changed By/At: naycan 18.08.2017 11:24



5- This dialog box confirms that the record has been successfully deleted.

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☒

Alter.Num.: Department: Type: Category: Status: Date: 18.08.2017 Language: E MRP Controller

Variant: >

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S

Table View Chart View Pivot View Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

6- Select the "Delete" check box from the header to list down all deleted records.

Bill Of Material List

Company: 10 Plant: BOM Number: Material Number: Description: Deleted: ☒

Alter.Num.: Department: Type: Category: Status: Date: 15.10.2017 Language: E MRP Controller

Variant: >

>	CC	PC	Alt.	BOM Number	Material	Description	Valid from	Valid until	Cat.	Typ.	Sta.
1	10	01	00	BP0001	BP0001	Bicycle	01.01.2017	01.01.2030	S	P	S

E BOM 410 Confirm

Do you want to delete this record ?After deleting couldn't be get back

Yes No

Table Chart Pivot Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

7- Select the item to be deleted and press "Delete" button to remove the record completely.

2.8 - Adding Multi Materials

To add multiple elements to an existing BOM

Bill Of Material List

Company: 11 Plant: 01 BOM Number: Material Num.: %E Description: Deleted: ☐ Planner:

Alternum: Construction Department BOM Type: BOM Categ: Bom Status: Valid From: 28.08.2019 Language: E

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

1. In order to add multiple materials to an existing BOM, access **BOMT01 - BOM Management** transaction. Enter the BOM material number, and click "Search" button.

Bill Of Material List

Company: 11 Plant: 01 BOM Number: Material Num.: BS0103E Description: Deleted: ☐ Planner:

Alternum: Construction Department BOM Type: BOM Categ: Bom Status: Valid From: 28.08.2019 Language: E

Table Chart Pivot

Sel: 11 Sum: 16 Ava: 2.667 Max: 11 Min: 0

	Company	Plant	Alternum	BOM Number	Material	Description	Valid From	Valid Until	BOM Categ	BOM Type	Bom Status
1	11	01	00	BS0103E	BS0103E	Gear Hardw...	27.08.2019	01.01.2030	1	2	1

2. Select the BOM and click "Change" button to access its detail.

Bill Of Material Information

Company: 11 BOM Number: B50103E Material Num.: B50103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternun: 00 Max. Lot Size: 100,000,000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents

Bill Of Material Items

Add Items Options Copy Items

Item	BOM Item T.	BOM Comp. Num.	L. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod.?
1	10 2	BR0210E	00	1.2000	M	Wire			<input type="checkbox"/>
2	20 2	BR0211E	00	3.0000	M	Chain			<input type="checkbox"/>

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

3. In order to add multiple materials to the BOM, click "Add Items" button.

Material Selection

Company: 11 Plant: 01 Material: %E Description: Status: ☐

Search Date: 28.08.2019 Class: ☐ Class Search Long Description: ☐

Type: Planner Group: Main Group: ☐ BOM Exist: ☐ ROU Exist: ☐

Base Data Purchase Data Sales Data **MRP Data** Finance Data M. with Routings Class Data

MRP Material List

Item	Alt.	Material	Description	Valid From	Valid Until	Planner	Type	Class	ABC	MRP Phases	Base Rate	Subst.	Qty Unit	Long Desc.
1	11	BF0101E	Wheels	27.08.2019	01.01.2030	001	0002		30		0.00	0	PCS	
2	11	BK0001E	Paint	27.08.2019	01.01.2030	001	0001		20		0.00	0	KG	
3	11	BM0001E	Security Kit - 01	27.08.2019	01.01.2030	005	0003				0.00	0	PCS	
4	11	BM0002E	Security Kit - 02	27.08.2019	01.01.2030	005	0003				0.00	0	PCS	
5	11	BP0001E	Bicycle	27.08.2019	01.01.2030	001	0003		10		0.00	0	PCS	
6	11	BP0001EE	Bicycle	27.08.2019	01.01.2030	001	0003		10		0.00	0	PCS	
7	11	BP0002EE	Bicycle	27.08.2019	01.01.2030	003	0003		10		0.00	0	PCS	
8	11	BP0005E	Bicycle	27.08.2019	01.01.2030	001	0003		10		0.00	0	PCS	
9	11	BR0201E	Handlebar	02.08.2019	01.01.2030	001	0001		20		0.00	0	PCS	
10	11	BR0202E	Saddle	27.08.2019	01.01.2030	001	0001		20		0.00	0	PCS	
11	11	BR0203E	Bicycle Frame	27.08.2019	01.01.2030	001	0001		20		0.00	0	PCS	
12	11	BR0205E	Tire	02.08.2019	01.01.2030	001	0001		20		0.00	0	PCS	
13	11	BR0206E	Brake	27.08.2019	01.01.2030	0001			20		0.00	0	PCS	
14	11	BR0207E	Pedal	27.08.2019	01.01.2030	0001			20		0.00	0	PCS	
15	11	BR0208E	Arm	27.08.2019	01.01.2030	0001			20		0.00	0	PCS	
16	11	BR0209E	Gear	27.08.2019	01.01.2030	001	0001		20		0.00	0	PCS	
17	11	BR0210E	Wire	27.08.2019	01.01.2030	001	0001		20		0.00	0	M	
18	11	BR0211E	Chain	27.08.2019	01.01.2030	0001			20		0.00	0	M	

Table Chart Pivot

Sel: 30 Sum: 56 Ava: 5.5 Max: 20 Min: 0

4. Enter the relevant search criteria for the materials to be added, and click "Search" button.

Select the materials to be added with the help of Control key on the keyboard, and click "Confirm" button.

Bill Of Material Information

Company: 11 BOM Number: BS0103E Material Num.: BS0103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternun: 00 Max. Lot Size: 100,000.0000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents

Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod. ?
1	10 2	BR0210E	00	1.2000	M	Wire			<input type="checkbox"/>
2	20 2	BR0211E	00	3.0000	M	Chain			<input type="checkbox"/>
3	30 1	BR0209E	00	1.0000	PCS	Brake			<input type="checkbox"/>
4	40 1	BR0207E	00	1.0000	PCS	Pedal			<input type="checkbox"/>

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

5. Select the materials to be added with the help of Control key on the keyboard, and click "Confirm" button.

The selected materials are added to the BOM. Click "Save" button to save the BOM.

Bill Of Material Information

Company: 11 BOM Number: BS0103E Material Num.: BS0103E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternun: 00 Max. Lot Size: 100,000.0000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents


Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod. ?
1	10 2	BR0210E	00	1.2000	M	Wire			<input type="checkbox"/>
2	20 2	BR0211E	00	3.0000	M	Chain			<input type="checkbox"/>
3	30 1	BR0209E	00	1.0000	PCS	Brake			<input type="checkbox"/>
4	40 1	BR0207E	00	1.0000	PCS	Pedal			<input type="checkbox"/>

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

E BOM 138 Info

 BOM 11 01 BS0103E 00 was updated successfully!

OK

6. Confirmation stating that the BOM is saved appears.

3 - Variant Transfer Methods

3.3 - Variant Transfer: Matching

Defining different variant properties to BOM material and components to enable connection between these properties for variant transfer

1. In order to create a connection between variant properties for variant transfer by defining different variant properties to the BOM material and its components, access BOMT01 transaction.

Search for the relevant BOM. The appropriate variant must be defined in the **BAST03 - Material Master** transaction for the BOM and the sub-component of the BOM.

2. Click on the "Change" button to access the details of the relevant BOM.

Bill Of Material Information

Company: 11 BOM Number: B50102E Material Num.: B50102E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Alternum: 00 Max. Lot Size: 100.000.0000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Pedal Set Demontage?: ☐

General Items Comments Documents

Bill Of Material Items

Item	BOM Item T	BOM Comp. Num.	Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt Desc.	Is Ext. Opr. Prod.?
1	10	2	BR0207E	2.0000	PCS	Pedal			<input type="checkbox"/>
2	20	2	BR0208E	2.0000	PCS	Arm			<input type="checkbox"/>

Table Chart Pivot

Sel: 10 Sum: 24 Ave: 4.8 Max: 20 Min: 0

3. Select the relevant component and click the "Detail" button on the right.

Bill Of Material Item Detail

Navigation: << < > >> [Detail] [Close]

BOM Item Num.: 20 Quantity: 2.0000
 BOM Item Type: 2 Fix Quantity: 0.0000
 Material Num.: BR0208E Scrap Rate (%): 0.000
 Alternum: 00 ByProd Factor: 0.000
 Qty Unit: PCS Short Text: Arm

General Text Variant Code

Bill Of Material Item Detail

Size 01: 0.000 Variable Size Factor: 1.000
 Size 02: 0.000 Unit:
 Size 03: 0.000 Formula Key:

Update

Collective Issue: ☒ Requirement Planning ☒ Material Entry ☒ Production Order ☒
 Sales: ☐ Product Costing ☒ Recursion Check ☐ Engineering(1)Design(0) ☒
 Fix Quantity: ☐ Variable Size ☐ By Product ☐ Explosion Stop ☐
 Print: ☒ Provided Part ☐ Transfer to ext. opr. is P.O. based ☐ Variant Dependent ☒
 Basic semi product: ☐ Replacable in Service ☐ Not Use Demontage PO ☐ Ext. Opr. Product ☐
 Reservation: Optional ☐ Is Material Container ☐
 Is Add Empty ☐

Description:

4. For variant matching the Variant transfer matching control in the component detail must be active.

Bill Of Material Information

Company: 11 BOM Number: BS0102E Material Num.: BS0102E
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Altern.: 00 Max. Lot Size: 100,000,000 Qty Unit: PCS
 Valid From: 27.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Pedal Set Demontage?: ☐


General Items Comments Documents

Bill Of Material Items

Add Items Options Copy Items

Item	BOM Item T	BOM Comp. Num.	Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt Desc.	Is Ext. Opr. Prod.?
1	10 2	BR0207E	00	2.0000	PCS	Pedal			<input type="checkbox"/>
2	20 2	BR0208E	00	2.0000	PCS	Arm			<input type="checkbox"/>

E BOM 138 Info

 BOM 11 01 BS0102E 00 was updated successfully!

OK

Table Chart Pivot

Sel: 10 Sum: 24 Ava: 4.8 Max: 20 Min: 0

5. After making the relevant checks, click the "Confirm" button.

Bill Of Material List

Company: 11 Plant: 01 BOM Number: BS0102E Description: Deleted: ☐
 Altern.: Construction Department BOM Type: BOM Categ.: Bom Status: Valid From: 28.08.2019 Language: E Planner: ☐

Variant

>	Company	Plant	Altern.	BOM Number	Material	Description	Valid From	Valid Until	BOM Categ.	BOM Type	Bom Status
1	11	01	00	BS0102E	BS0102E	Pedal Set	27.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Sel: 11 Sum: 16 Ava: 2.667 Max: 11 Min: 0

6. By selecting the BOM that was examined, click the "Variant" button on the right side of the screen.

BOM Item - Option Matching

Company: 11
Plant: 01
AltNum: 00
B. Quantity: 1.0000
Qty Unit: PCS
BOM Number: BS0102E
Material Num.: BS0102E
Material Description: Pedal Set
Var. Key: 001
Description: Rent - Ajrlik Varyant
Update For PO: ☐

01 Color
☐ 0101 Red
☐ 0102 Green
☐ 0103 Blue
☐ 0104 White
☐ 0105 Black
02 Weight
☐ 02

Reset Row Reset Column Variant Assign. Code

Item	Component	Quantity	Unit	Description	Fixed Alt. Desc.	01-Color (Don't use)	0101 Red	Color	Option D...	0102 Green	Color	Option D...	0103 Blue	Color	Option Desc.	0104 White	Color	Option D...	0105
20	BS0208E	2.000	PCS	Arm		<input type="checkbox"/>	<input type="checkbox"/>	0.0000		<input type="checkbox"/>	0.0000		<input checked="" type="checkbox"/>	2.0000	Arm Type: Plastic	<input type="checkbox"/>	0.0000		<input type="checkbox"/>

Table Chart Pivot Sel: 1 Sum: 0 Ava: 0 Max: 0 Min: 0

7. The table that appears at the bottom of the Option Matching screen will list only those components or semi-products with active variant transfer matching (Variant Dependent) control. In order to indicate a case where the Pedal Kit in the BOM is Blue, and for the arm, which is the sub-component, the arm type is plastic and the amount to be used is 2 units; Select the arm component, and activate the control under the Blue property 0103. Indicate the quantity field for the amount of blue color to be used in the corresponding variant from this component. And for the specified variant of the component, press the "Zoom" button in the corresponding field to select the Plastic arm type.

BOM Item - Option Matching

Company: 11
Plant: 01
AltNum: 00
B. Quantity: 1.0000
Qty Unit: PCS
BOM Number: BS0102E
Material Num.: BS0102E
Material Description: Pedal Set
Var. Key: 001
Description: Rent - Ajrlik Varyant
Update For PO: ☐

01 Color
☐ 0101 Red
☐ 0102 Green
☐ 0103 Blue
☐ 0104 White
☐ 0105 Black
02 Weight
☐ 02

Reset Row Reset Column Variant Assign. Code

Item	Component	Quantity	Unit	Description	Fixed Alt. Desc.	01-Color (Don't use)	0101 Red	Color	Option D...	0102 Green	Color	Option D...	0103 Blue	Color	Option Desc.	0104 White	Color	Option D...	0105
20	BS0208E	2.000	PCS	Arm		<input type="checkbox"/>	<input type="checkbox"/>	0.0000		<input type="checkbox"/>	0.0000		<input checked="" type="checkbox"/>	2.0000	Arm Type: Plastic	<input type="checkbox"/>	0.0000		<input type="checkbox"/>

Table Chart Pivot Sel: 1 Sum: 0 Ava: 0 Max: 0 Min: 0

E BOM 138 Info
BOM 11 01 BS0102E 00 was updated successfully!
OK

8. After the matchings are completed, click "Confirm" button. And the variant matching is saved. BOMT05 - BOM Analysis application is used to observe the relevant match.

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: BSO102E Material Num: BSO102E Alternum: 00

Quantity: 1.0000 PCS Qty Unit: Valid From: 28.08.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt. Auto?: ☒

BOM Level	BOM Type	Material	Alternum	Quantity	Qty Unit	Desc.	Variant Key
1				0.00			

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

9. The linked BOM number is entered in the BOM No field and the "Search" button is pressed.

Option List

Choose	Attribute	Option Desc.	Attribute ...	Option Key
<input type="checkbox"/>	Color	Red	01	01
<input type="checkbox"/>		Green	01	02
<input checked="" type="checkbox"/>		Blue	01	03
<input type="checkbox"/>		White	01	04
<input type="checkbox"/>		Black	01	05

Table Chart Pivot

Sel: 1 Sum: 1 Ava: 1 Max: 1 Min: 1

Changable options

Choose	Attribute	Attribute Desc.	Value	Text
<input type="checkbox"/>	02	Weight	0.000	

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Color: Blue

10. From the pop-up screen, select Blue with the specified variant property for the BOM material and press the "Confirm" button.

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: BSO102E Material Num.: BSO102E Alternum: 00

Quantity: 1.0000 PCS Qty Unit: Valid From: 28.08.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt. Auto?: ☒

BOM Level	BOM Type	Material	Alternum	Quantity	Qty Unit	Desc.	Variant Key
1	BSO102E	BSO102E	00	1.0000	PCS	Pedal Set	Color: Blue
2	0*	10-2	BR0207E	2.0000	PCS	Pedal	
3	0*	20-2	BR0208E	4.0000	PCS	Arm	Arm Type: Plastic

Table Chart Pivot Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

11. Variant matching is observed with the option matching method between BOM and Component. Variant transfer with option matching is the first matching method of variant transfer methods in Canias ERP.

3.2 - Variant Transfer: Fixing for a Component

The process of fixing the BOM component variant by using variant transfer methods

Bill Of Material List

Company: 11 Plant: 01 BOM Number: Construction Department BOM Type: BOM Category: Bom Status: Valid From: 28.08.2019 Language: E Deleted: ☐ Planner:

Company	Plant	Alternum	BOM Number	Material	Description	Valid From	Valid Until	BOM Categ	BOM Type	Bom Status	Variant
1											

Table Chart Pivot Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

1. In the **BAST03 - Material Master** transaction, the appropriate variant must be defined beforehand for the material of the BOM and the subcomponent material of the BOM.

Search for the relevant BOM in **BOMT01 - Bill of Material Management** transaction.

Bill Of Material List

Company: 11 Plant: 01 BOM Number: Material Num.: B0102e Description: Deleted: ☐ Planner: ☐

Altium: Construction Department BOM Type: BOM Categ.: Bom Status: Valid From: 28.08.2019 Language: E

Variant:

	Company	Plant	Altium	BOM Number	Material	Description	Valid From	Valid Until	BOM Categ.	BOM Type	Bom Status
1	11	01	00	B0102E	B0102E	Pedal Set	27.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Sel: 11 Sum: 16 Ava: 2.667 Max: 11 Min: 0

2. Select the relevant row and go to detail with the "Change" button.

Option List

☐

	Choose	Attribute ...	Option D...	Attribute ...	Option Key
1	<input type="checkbox"/>	Arm Type	Metal	01	01
2	<input checked="" type="checkbox"/>		Plastic	01	02

Table Chart Pivot

Sel: 5 Sum: 4 Ava: 1.333 Max: 2 Min: 1

Changeable options

	Choose	Attribute ...	Attribute Desc.	Value	Text
1	<input type="checkbox"/>			0.000	

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Arm Type: Plastic

3. The Items tab of the BOM Information screen shows which components the material is composed of and the quantity relationships. If the variant of the component is not specified

depending on the variant of the product, the variant fixing feature of the variant transfer methods is examined.

Press the zoom button in the fixed attributes area of the component.

Select the attribute to be fixed and press the "Confirm" button.

The screenshot shows the SAP Bill of Material Information screen. The top section displays general information for BOM Number BS0102E, Material Num. BS0102E, and various lot sizes and quantities. The bottom section shows the Bill of Material Items table with two items: Item 1 (BOM Item T. 10, BOM Comp. Num. BR0207E, Quantity 2.0000, PCS, Pedal) and Item 2 (BOM Item T. 20, BOM Comp. Num. BR0208E, Quantity 2.0000, PCS, Arm). A pop-up message box titled "E BOM 138 Info" is displayed in the center, stating "BOM 11 01 BS0102E 00 was updated successfully!" with an "OK" button.

5. Access BOMT05 BOM Analyzing transaction to list the BOM and its sub-items.

The screenshot shows the SAP Bill of Material Information screen, similar to the previous one. The top section displays general information for BOM Number BS0102E, Material Num. BS0102E, and various lot sizes and quantities. The bottom section shows the Bill of Material Items table with two items: Item 1 (BOM Item T. 10, BOM Comp. Num. BR0207E, Quantity 2.0000, PCS, Pedal) and Item 2 (BOM Item T. 20, BOM Comp. Num. BR0208E, Quantity 2.0000, PCS, Arm). The table is displayed in a grid format with columns for Item, BOM Item T., BOM Comp. Num., I. Alt. Num., Quantity, Qty Unit, Description, Options List, Fixed Alt. Desc., and Is Ext. Opt. Prod. ?.

7. Search for the relevant BOM using search criteria and search button.

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: B00102E Material Num.: 00 Altern.: 00

Quantity: 1.0000 Qty Unit: PCS Valid From: 28.08.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt Auto?: ☒

BOM Level	BOM Type	Material	Altern.	Quantity	Qty Unit	Desc.	Variant Key
1				0.00			

Table Chart Pivot

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

8. A screen appears showing the variant properties of the base material, the BOM. Select the attribute to be assigned to the material and press the "Confirm" button.

Option List

Choose	Attribute	Option D.	Attribute	Option Key
<input checked="" type="checkbox"/>	Color	Red	01	01
<input type="checkbox"/>	Green	01	02	02
<input type="checkbox"/>	Blue	01	03	03
<input type="checkbox"/>	White	01	04	04
<input type="checkbox"/>	Black	01	05	05

Table Chart Pivot

Changeable options

Choose	Attribute	Attribute Desc.	Value	Text
<input type="checkbox"/>	02	Weight	0.000	

Table Chart Pivot

Color: Red

9. Although different variants of the BOM base material are selected, the property of the component with the fixed variant remains unchanged. Variant transfer with variant fixing is the matching method that is considered in the second row after variant transfer by Option matching method, one of the variant transfer methods in Canias ERP.

3.1 - Variant Transfer: From product variant option to component variant option

Transferring product variant to component in BOM

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: BS0101E Material Num.: BS0101E Alternum: 00

Quantity: 1.0000 Qty Unit: PCS Valid From: 28.08.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt. Auto?: ☒

BOM Level	BOM Type	Material	Alternum	Quantity	Qty Unit	Desc.	Variant Key
1				0.00			

Table Chart Pivot

Sel: 0 Sum: 0 Avo: 0 Max: 0 Min: 0

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

1. Access BOMT05 - BOM Level List transaction. Enter the BOM number to BOM Number field, and click the "Search" button. The variants for the BOM's materials and the sub component of the relevant BOM should be defined in BAST03 - Material Master transaction beforehand.

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: BS0101E Material Num.: BS0101E Alternum: 00

Quantity: 1.0000 Qty Unit: PCS Valid From: 28.08.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt. Auto?: ☒

BOM Level	BOM Type	Material	Alternum	Quantity	Qty Unit	Desc.	Variant Key
1				0.00			

Table Chart Pivot

Sel: 0 Sum: 0 Avo: 0 Max: 0 Min: 0

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

2. A screen that lists the material's variant attributes and options appears. On the upper part of the screen option attributes and on the bottom part, the changeable options are listed. Select the relevant attribute on the upper part, and then click the "Confirm" button.

Option List

	Choose	Attribute	Option D...	Attribute ...	Option Key
1	<input type="checkbox"/>	Color	Red	01	01
2	<input checked="" type="checkbox"/>		Green	01	02
3	<input type="checkbox"/>		Blue	01	03
4	<input type="checkbox"/>		White	01	04
5	<input type="checkbox"/>		Black	01	05

Table Chart Pivot Sel: 1 Sum: 1 Ava: 1 Max: 1 Min: 1

Changeable options

	Choose	Attribute	Attribute Desc.	Value	Text
1	<input type="checkbox"/>	02	Weight	0.000	

Table Chart Pivot Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Color: Green

3. Since the option descriptions on the variant switches of the product and the respective component are the same, it appears that the option selected for the product also flows into the corresponding component. Variant transfer with variant matching is sequentially the last considered matching method in variant transfer methods in Canias ERP. If there is no variant fixing or option matching record, the components selected on this screen are transferred to components that have the same option description as the option description of the endpoint product in the variant transfer.

4 - Bill of Material Batch Management Processes

4.1 - Changing Material

Doing multiple and simultaneous changes in items in BOM

Changing Material

Company: 11 Plant: 01 Material Num.: Alternum: Material Num.: Item Description: Qty Unit: Valid From: 28.08.2019

New

Material Num.: Item Type: Qty Unit: Change Warehouse-Stock Place: ☐
 Warehouse: St. Place: Quantity: 1.00 Change Unit: ☐
 Description: Used as Factor: ☐ **Change**

	Company	Plant	BOM No.	Material	Material Descr.	Alternum	Valid From	Valid Until	BOM Item No	BOM Comp. Num.	Item Desc.	Quantity	Qty Unit	Mat.
1	11	01										0.00		

Table Chart Pivot Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

1. In order to make batch changes to materials in the Bill of Materials, access **BOMT03 - Changing Material** transaction.

Enter the material number to be changed in the related field and click the "Search" button.

Changing Material

Company: 11 Plant: 01 Material Num.: Alternum: Material Num.: Item Description: Qty Unit: Valid From: 28.08.2019

New

Material Num.: BR0212E Item Type: 1 Qty Unit: M Change Warehouse-Stock Place: ☐
 Warehouse: 100 St. Place: 0003 Quantity: 1.00 Change Unit: ☐
 Description: Rim Wire Used as Factor: ☐ **Change**

	Company	Plant	BOM No.	Material	Material Descr.	Alternum	Valid From	Valid Until	BOM Item No	BOM Comp. Num.	Item Desc.	Quantity	Qty Unit	Mat.
1	11	01	BP0001E	BP0001E	Bicycle	00	27.08.2019	01.01.2030	40	BR0210E	Wire	1.0000	M	1
2	11	01	BS0103E	BS0103E	Gear Hardware	00	27.08.2019	01.01.2030	19	BR0210E	Wire	1.2000	M	1
3	11	01	BS0103E-1	BS0103E-1	Gear Hardware	00	28.08.2019	01.01.2030						1

E BOM 500 Confirm

Would you like to update selected items?

Yes **No**

Table Chart Pivot Sel: 14 Sum: 54 Avg: 9 Max: 40 Min: 0

2. The list of all BOMs where the relevant material is used as a BOM item is displayed. The material to be used instead of the old component is written to the Material Number in the New field. Warehouse and Stock Location, Description, Unit information in "BAST03 - Material Master Records" is displayed on the screen. Enter the Item type of BOM where this material will be used in the BOM Item type code in the New field so that the Item type of the new material is determined. In addition, if the Factor control on the right side of the screen is activated, the usage amount of the new material in the BOM is multiplied by the value entered in the Old Quantity * Quantity field. If

the factor control is not active, the newly added product is added to the BOM as much as it is written in the Quantity field. By clicking on the "Change" button, the relevant BOMs are changed.

Changing Material

Company: 11 Plant: 01 Material Num.: BR0210E Alternum: BR0210E Item Description: Qty Unit: Valid From: 28.08.2019

New

Material Num.: BR0210E Item Type: 1 Qty Unit: M Change Warehouse-Stock Place: ☐
 Warehouse: 100 St. Place: 0003 Quantity: 1.00 Change Unit: ☐
 Description: Rm Wire Used as Factor: ☐ **Change**

>	Company	Plant	BOM No.	Material	Material Descr.	Alternum	Valid From	Valid Until	BOM Item No.	BOM Comp. Num.	Item Desc.	Quantity	Qty Unit	Mat.
1	11	01	BS0103E	BS0103E	Gear Hardware	00	27.08.2019	01.01.2030	10	BR0210E	Wire	1.2000	M	1
2	11	01	BS0103E-1	BS0103E-1	Gear Hardware	00	28.08.2019	01.01.2030	20	BR0210E	Wire	2.0000	M	1

E BOM 303 Info

BOM replacement was completed !

OK

Table Chart Pivot Sel: 14 Sum: 54 Avg: 9 Max: 40 Min: 0

3. If desired, **BOMT01 - BOM Management** transaction can be checked to observe the changes in related BOMs.

4.2 - Search Add/Remove Item to/from BOM

It is possible to select from the existing BOMs and add a single element (raw material / semi-product) to these selected BOMs.

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 Alternum: BP0001E Material Num.: BP0001E Description: Deleted

BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

Table Chart Pivot

>	Company	Plant	Alternum	BOM No.	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty...	Bom Status
1											

Add Component Remove Component

BOM

BOM Component Number: Description: ROU: First operation
 Item Type: I. Alt. Num.: Work Center:
 Quantity: 0.000 Qty Unit: Not add mat. if BOM includes it: ☒ Ope. Description:

Add item to the selected BOMs

1. To do this, access BOMT08 transaction. By using the search criteria in the top bar, the BOMs where items to be added or removed are determined and listed by clicking the "Search" button.

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 Alternum: BOM Number: Material Num.: Description:

BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

>	Company	Plant	Alternum	BOM Nu...	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty...	Bom Status
1	11	01	00	BF0101	BF0101	Wheels	01.01.2018	01.01.2030	1	2	1
2	11	01	00	BF0101E	BF0101E	Wheels	27.08.2019	01.01.2030	1	2	1
3	11	01	00	BM0001	BM0001	Elevator (Interna...	05.08.2019	01.01.2030	1	1	1
4	11	01	00	BM0001	BM0001	Security Kit - 01	01.01.2018	01.01.2030	1	1	1
5	11	01	00	BM0002	BM0002	Security Kit - 02	01.01.2018	01.01.2030	1	1	1
6	11	01	00	BN0001	BN0001	Elevator	06.08.2019	01.01.2030	1	2	1
7	11	01	00	BP0001	BP0001	Bicycle	01.01.2018	01.01.2030	1	1	1
8	11	01	01	BP0001	BP0001	Bicycle	01.01.2018	01.01.2030	3	1	1
9	11	01	00	BP0001-2	BP0001-2		01.01.2017	01.01.2030	2	1	1
10	11	01	02	BP0001-2	BP0001-2		01.01.2017	01.01.2030	2	1	1
11	11	01	00	BP0001E	BP0001E	Bicycle	27.08.2019	01.01.2030	1	1	1
12	11	01	00	BP0002	BP0002	Bicycle	05.08.2019	01.01.2030	1	1	1
13	11	01	00	BP0003	BP0003	Bicycle (with Ser...	01.08.2019	01.01.2030	1	1	1
14	11	01	00	BP0021	BP0021	Panel	26.08.2019	01.01.2030	1	1	1
15	11	01	00	BS0101	BS0101	Painted Frame	01.01.2018	01.01.2030	1	2	1
16	11	01	00	BS0101E	BS0101E	Painted Frame	27.08.2019	01.01.2030	1	2	1
17	11	01	00	BS0102	BS0102	Pedal Set	01.01.2018	01.01.2030	1	2	1
18	11	01	00	BS0102-1	BS0102-1	Pedal Set	01.01.2018	01.01.2030	1	2	1
19	11	01	00	BS0102E	BS0102E	Pedal Set	27.08.2019	01.01.2030	1	2	1
20	11	01	00	BS0103	BS0103	Gear Hardware	01.01.2018	01.01.2030	1	2	1

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Table Chart Pivot

Add Component Remove Component

BOM

BOM Component Number: Description: Item Type: Alt. Num.: Quantity: 0.000 Qty Unit: Not add mat. if BOM includes it: ☒

Add item to the selected BOMs

ROU

First operation: Work Center: Ope. Description:

2- It is possible to search according to the deleted status.

4.3 - Add Component

To choose among BOMs and add a single component to the selected BOM

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 Alternum: BOM Number: Material Num.: bs0103e-1 Description:

BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

>	Company	Plant	Alternum	BOM Nu...	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty...	Bom Status
1											

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Table Chart Pivot

Add Component Remove Component

BOM

BOM Component Number: Description: Item Type: Alt. Num.: Quantity: 0.000 Qty Unit: Not add mat. if BOM includes it: ☒

Add item to the selected BOMs

ROU

First operation: Work Center: Ope. Description:

1. In order to add a component to a BOM, access **BOMT08** transaction. Enter the relevant search criteria for the BOM, and click search button.

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 Altium: BOM Number: Material Num: bs0103e-1 Description: 28.08.2019 Deleted: Only Deleted: All

BOM Categ: BOM Status: BOM Type: Construction Dep: BOM Component Number: Valid From: Deleted: Only Deleted: All

	Company	Plant	Altium	BOM Nu.	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty.	Bom Status
1	11	01	00	BS0103E-1	BS0103E-1	Gear Hardware	28.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Add Component Remove Component

Sel: 11 Sum: 16 Avg: 2.667 Max: 11 Min: 0

BOM

BOM Component Number: BR0210E Description: ROU: Last operation

Item Type: 1 I. Alt. Num: Work Center:

Quantity: 2.0000 Qty Unit: PCS Not add mat. if BOM includes it: [X] Ope. Description:

Add item to the selected BOMs

2. Select the row of the relevant BOM, and enter the material to be added to the field in Add Component area.

Enter the item type, and other information such as which operation the material will be on the route of the material's product. Then click "Add the item to selected BOMs" button.

Warehouse and stockplace chooser screen

	Material	Warehouse	St. Place
1	BR0210E	100	0003

Table Chart Pivot

Sel: 3 Sum: 103 Avg: 51.5 Max: 100 Min: 3

Confirm

3. Enter where the warehouse and stock place of the relevant material will be on the screen, and click "Confirm".

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 Material Num.: bs0103e-1 Description: Gear Hardware

BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

	Company	Plant	AltNum	BOM Nu.	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty.	Bom Status
1	11	01	00	BS0103E-1	BS0103E-1	Gear Hardware	28.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Add Component Remove Component

Sel: 11 Sum: 16 Avg: 2.667 Max: 11 Min: 0

BOM

BOM Component Number: BR0210E Description: Last operation: Last operation

Item Type: 1 I. Alt. Num. Work Center: Work Center

Quantity: 2.0000 Qty Unit: PCS Not add mat. if BOM includes it: ☒ Ope. Description: Ope. Description

Add item to the selected BOMs

4. In order to see the newly added material, access BOMT01 transaction. Search for the relevant BOM here.

Bill Of Material List

Company: 11 Plant: 01 BOM Number: bs0103e-1 Material Num.: bs0103e-1 Description: Gear Hardware Deleted: ☐

AltNum: Construction Department: BOM Type: BOM Categ.: Bom Status: Valid From: 28.08.2019 Language: E Planner: Planner

Variant: Variant

	Company	Plant	AltNum	BOM Number	Material	Description	Valid From	Valid Until	BOM Categ.	BOM Type	Bom Status
1	11	01	00	BS0103E-1	BS0103E-1	Gear Hardware	28.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Sel: 11 Sum: 16 Avg: 2.667 Max: 11 Min: 0

5. Select it, and click "View" button.

Bill Of Material Information

Company: 11 BOM Number: BS0103E-1 Material Num.: BS0103E-1
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Altern.: 00 Max. Lot Size: 100.000.0000 Qty Unit: PCS
 Valid From: 28.08.2019 Valid Until: 01.01.2030 Update For PO: ☐
 Description: Gear Hardware Demontage?: ☐

General Items Comments Documents

Bill Of Material Items

Item	BOM Item T	BOM Comp. Num.	I. Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt Desc.	Is Ext. Opr. Prod.?
1	10	1	BR0211E	2.0000	M	Chain			<input type="checkbox"/>
2	20	1	BR0210E	2.0000	M	Wire			<input type="checkbox"/>

Table Chart Pivot

Sel: 10 Sum: 23 Ava: 4.6 Max: 20 Min: 0

6. The newly added material can be seen in the BOM Detail.

4.4 - Remove Component

Removing multiple components from BOMs

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 Altern.: BOM Number: BS0103E-1 Description:
 BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

Table **Chart** **Pivot**

>	Company	Plant	Altern.	BOM Nu.	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty.	Bom Status
1											

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Add Component **Remove Component**

BOM

BOM Component Number: Description:
 Item Type: I. Alt. Num.:
 Quantity: 0.000 Qty Unit:
☐ Not add mat. # BOM includes it ☒

ROU

First operation:
 Work Center:
 Ope. Description:
☐

Add item to the selected BOMs

1. In order to remove a component from a BOM, access BOMT08 transaction. Fill the relevant fields for the BOM, and click "Search" button.

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 AltNum: BOM Number: Material Num.: bs0103e-1 Description:

BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

	Company	Plant	AltNum	BOM Nu.	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty.	BOM Status
1	11	01	00	BS0103E-1	BS0103E-1	Gear Hardware	28.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Add Component Remove Component

Sel: 11 Sum: 16 Avg: 2.667 Max: 11 Min: 0

BOM

BOM Component Number: Description: ROU: First operation

Item Type: I Alt. Num. Work Center:

Quantity: 0.000 Qty Unit: Not add mat. if BOM includes it: ☒ Ope. Description:

Add item to the selected BOMs

2. Select the BOM's row, and switch to the Remove Component tab.

Adding/Removing Item To/From BOM

Company: 11 Plant: 01 AltNum: BOM Number: Material Num.: bs0103e-1 Description:

BOM Categ.: BOM Status: BOM Type: Construction Dep.: BOM Component Number: Valid From: 28.08.2019 Deleted: ☐ Not Deleted ☐ Only Deleted ☒ All

	Company	Plant	AltNum	BOM Nu.	Material	Descr.	Valid From	Valid Until	BOM Categ.	BOM Ty.	BOM Status
1	11	01	00	BS0103E-1	BS0103E-1	Gear Hardware	28.08.2019	01.01.2030	1	2	1

Table Chart Pivot

Add Component Remove Component


Sel: 11 Sum: 16 Avg: 2.667 Max: 11 Min: 0

BOM

BOM Component Number: BR0210E Description: Item Type: 1

Remove item from the selected BOMs

E BOM 306 Info

 Material , 01|BS0103E-1|00 is deleted from the related BOMs!

OK

3. Enter the information of the component to be removed from the BOM, and click the "Remove component from the selected BOM" button.

Bill Of Material List

Company

Plant

BOM Number

Material Num.

Description

Deleted

11

01

bs0103e-1

☐

Alternum

Construction Department

BOM Type

BOM Categ.

Bom Status

Valid From

Language

Planner

28.08.2019

E

Variant

>

Company

Plant

Alternum

BOM Number

Material

Description

Valid From

Valid Until

BOM Categ.

BOM Type

Bom Status

1

Table

Chart

Pivot

Sel: 0

Sum: 0

Ava: 0

Max: 0

Min: 0

4. The relevant component is removed from the BOM. In order to see the changes in the BOM, access BOMT01 transaction.

Bill Of Material List

5. Search for the BOM, select it, and click "View" button.

Bill Of Material Information

Company: 11 BOM Number: BS0103E-1 Material Num.: BS0103E-1
 Plant: 01 Min. Lot Size: 0.0000 B. Quantity: 1.0000
 Altern.: 00 Max. Lot Size: 100.000.0000 Qty Unit:
 Valid From: 28.08.2019 Valid Until: 01.01.2030 Update For PO:
 Description: Gear Hardware Demontage ?

General Items Comments Documents

Bill Of Material Items

Item	BOM Item T.	BOM Comp. Num.	Alt. Num.	Quantity	Qty Unit	Description	Options List	Fixed Alt. Desc.	Is Ext. Opr. Prod. ?
1	1	BR0211E	00	2.0000	M	Chain			

Table Chart Pivot

Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

7. It is seen that the component is not in the BOM.

5 - Bill of Material Reporting Processes

5.1 - Search Material Usage Report

Material Usage Report

Company: 10 Plant: 01 Material: BS0102 Alter. Num.: 00 Date: 17.10.2017 Level: 9 ☐ BOM Structure Control

Options

Material/Component	BOM Number/Item Type	BOM Item	Alternative Description	Quantity	Valid Date/Lot Size	Option Desc.	Stat. Status
1							

Table Chart Pivot

Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

1- Access **BOMT02** Material Usage Report transaction. In order to use this transaction; 'Company', 'Plant' and 'Material' fields where raw material entry is to be made are mandatory. With the "Alternative Num" field, it is possible to find out which alternative numbered BOM is used in the

material. In the "Level" field, it is possible to enter the information based on the level this item will be used the most.

Material Selection

Company	Plant	Material	Description	Status
10	01	BR0210		

Search Date: 17.10.2017
 Class:
☐ Class Search
 Long Description:

Type:
 Planner:
 Group:
 Main Group:
 BOM Exist: ☐
 ROU Exist: ☐

Base Data | Purchase Data | Sales Data | **MRP Data** | Finance Data | M.with Routings | Class Data

MRP Material List

	CC	PC	Material	Description	Valid From	Valid Until	Planner	Type	Class	ABC	MRPProc...	Scra...	SpStock	SKU	Long
1	10	01	BR0210	Wire	01.01.2017	01.01.2030	M00	HMMD		B	R	0.00	0	M	

Table | Chart | Pivot
 Sel:15 Sum:11 Avg:2.75 Max:10 Min:0

2 - On **BOMT02** Material Usage Report screen, click the "Zoom" button in the Material field. Click on the "Search" button to view the drop-down list. Select and confirm the relevant material.

Material Usage Report

Company: 10 Plant: 01 Material: BR0210 Alter.Num.: 00 Date: 17.10.2017 Level: 9 ☐ BOM Structure Control Options

Material/Component	BOM Number/Item Type	BOM Item	Alternative/Description	Quantity	Valid Date/Lot Size	Option Desc.	Mat. Status
1 BS0102	BS0102		01/Pedal Set	1.0 AD	01.01.2017 - ...		A
2 BR0210	1	20	00/Wire	1.0 M	0.0 - 100000.0		A
3 BS0102-1	BS0102-1		00/Pedal Set	1.0 AD	01.01.2017 - ...		A
4 BR0210	1	20	00/Wire	1.0 M	0.0 - 100000.0		A
5 BP0001	BP0001		01/Bicycle	1.0 AD	01.01.2017 - ...		A
6 BS0103	2	60	01/Gear Hardware	1.0 AD	-		A
7 BR0210	1	20	00/Wire	2.0 M	0.0 - 100000.0		A
8 BP0001	BP0001		CD/Bicycle	1.0 AD	01.01.2017 - ...		A
9 BP0001	BP0001		CD/Bicycle	1.0 AD	01.01.2017 - ...		A
10 BS0103	2	60	00/Gear Hardware	1.0 AD	-		A
11 BR0210	1	20	00/Wire	2.0 M	0.0 - 100000.0		A

Table Chart Print Set 0 Sum 0 Avg 0 Max 0 Min 0

3- After selecting the material, click the "Search" button on the **BOMT02** Material Usage Report screen. The Bill of Material in which the material is used are listed. When the columns on the detail screen are examined, Alternative/Description and Quantity information is displayed.

Material Usage Report

Company: 10 Plant: 01 Material: BR0210 Alter.Num.: 00 Date: 17.10.2017 Level: 1 ☐ BOM Structure Control Options

Material/Component	BOM Number/Item Type	BOM Item	Alternative/Description	Quantity	Valid Date/Lot Size	Option Desc.	Mat. Status
1 BS0102	BS0102		01/Pedal Set	1.0 AD	01.01.2017 - ...		A
2 BR0210	1	20	00/Wire	1.0 M	0.0 - 100000.0		A
3 BS0102-1	BS0102-1		00/Pedal Set	1.0 AD	01.01.2017 - ...		A
4 BR0210	1	20	00/Wire	1.0 M	0.0 - 100000.0		A
5 BP0001	BP0001		01/Bicycle	1.0 AD	01.01.2017 - ...		A
6 BS0103	2	60	01/Gear Hardware	1.0 AD	-		A
8 BP0001	BP0001		CD/Bicycle	1.0 AD	01.01.2017 - ...		A
9 BP0001	BP0001		CD/Bicycle	1.0 AD	01.01.2017 - ...		A

Table Chart Print Set 0 Sum 0 Avg 0 Max 0 Min 0

4- On the **BOMT02** Material Usage Report screen, to search for the first level material usage, type "1" in the 'Level' field in the upper bar and press "Search" button. The amount of material usage for the first level is displayed.

5.2 - Print Material Usage Report

Material Usage Report

Company: 10 Plant: 01 Material: BR0210 Alter.Num.: 00 Date: 17.10.2017 Level: 9 ☐ BOM Structure Control Options

Material/Component BOM Number/Item Type BOM Item Alternative/Description Quantity Valid Date/Lot Size Option Desc. Mat. Status

1

Table Chart Pivot Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

1 - "Zoom" Material field and select relevant material.

Material Selection

Company: 10 Plant: 01 Material: BR0210 Description: Status:

Search Date: 17.10.2017 Class: ☐ Class Search Long Description: Class Criteria

Type: Planner: Group: Main Group: BOM Exist: ☐ ROU Exist: ☐

Base Data Purchase Data Sales Data **MRP Data** Finance Data M.with Routings Class Data

MRP Material List

	CC	PC	Material	Description	Valid From	Valid Until	Planner	Type	Class	ABC	MRPProc...	ScrapRate	SpStock	SKU	Long
1	10	01	BR0210	Wire	01.01.2017	01.01.2030	M00	HMMD		B	R	0.00	0	M	

Table Chart Pivot Sel: 15 Sum: 11 Avg: 2.75 Max: 10 Min: 0

2 - Select the relevant material from the screen and press the "Confirm" button.

Material Usage Report									
Company	Plant	Material	Alter.Num.	Date	Level	BOM Structure Control			
10	01	BR0210	00	17.10.2017	9	Options			
Material/Component	BOM Number/Item Type	BOM Item	Alternative/Description	Quantity	Valid Date/Lot Size	Option Desc.	Mat. Status		
1 BS0102	BS0102		01/Pedal Set	1.0 AD	01.01.2017 - ...		A		
2 BR0210	1	20	00/Wire	1.0 M	0.0 - 100000.0		A		
3 BS0102-1	BS0102-1		00/Pedal Set	1.0 AD	01.01.2017 - ...		A		
4 BR0210	1	20	00/Wire	1.0 M	0.0 - 100000.0		A		
5 BP0001	BP0001		01/Bicycle	1.0 AD	01.01.2017 - ...		A		
6 BS0103	2	60	01/Gear Hardware	1.0 AD	-		A		
7 BR0210	1	20	00/Wire	2.0 M	0.0 - 100000.0		A		
8 BP0001	BP0001		CD/Bicycle	1.0 AD	01.01.2017 - ...		A		
9 BP0001	BP0001		CD/Bicycle	1.0 AD	01.01.2017 - ...		A		
10 BS0103	2	60	00/Gear Hardware	1.0 AD	-		A		
11 BR0210	1	20	00/Wire	2.0 M	0.0 - 100000.0		A		

3 - After selecting material, "Search" button is pressed. On the screen that appears, you can see which semi-products/components of the material are under the product.

MATERIAL USAGE REPORT									
ias Industrial Application Software									
Company	10 / 01								
Material Num	br0210								
	Wire								
Date	17.11.2017 11:54:19								
Level	BOM	Material	Alt.	Valid From/Until		Lot size Min/Max		Description	
	Item	Type	Component	Quantity		Unit			
1 ----	BS0102		BS0102	01	01.01.2017	01.01.2030	0.00	100,000.00	Pedal Set
	10	1	BR0210		2.00	M			
- 2 ----	BP0001		BP0001	00	01.01.2017	01.01.2030	0.00	100,000.00	Bicycle
	50	2	BS0102		1.00	AD			
-- 3 ----	BP0001		BP0001	CD	01.01.2017	01.01.2030	0.00	100,000.00	Bicycle
	50	1	BP0001		1.00	AD			
--- 4 ---	BP0001		BP0001	CD	01.01.2017	01.01.2030	0.00	100,000.00	Bicycle
	50	1	BP0001		1.00	AD			
---- 5 --	BP0001		BP0001	CD	01.01.2017	01.01.2030	0.00	100,000.00	Bicycle
	50	1	BP0001		1.00	AD			

4 - Press the "Print" button on the right side of the screen to display the Material Usage Report.

5.3 - Search Bill of Material Level List

Listing, reporting and printing of BOM levels as structural and level-wise according to different parameters such as material, BOM alternative.

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: BP0001E Material Num.: BP0001E Alternum:
 Quantity: 1.0000 PCS Valid From: 28.08.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt. Auto? ☒

BOM Level	BOM Type	Material	Alternum	Quantity	Qty Unit	Desc.	Variant Key
1				0.00			

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

1. Access **BOMT05 - BOM Analyzing** transaction. Enter the BOM number to be listed in the BOM field, and enter the level number up to the desired level. Explosion type, and Report type can also be changed. After entering the relevant criteria, click "Search" button.

Bill Of Material Level List

Company: 11 Plant: 01 BOM Number: BP0001E Material Num.: BP0001E Alternum:
 Quantity: 1.0000 PCS Valid From: 10.09.2019 Level (Explode): 9 Open Type: Open Exp Stop Report Type: Structure Level (Show): 9 Choose Alt. Auto? ☒

BOM Level	BOM Type	Material	Alternum	Quantity	Qty Unit	Desc.	Variant Key
1							
2	0*	19-1	BR0101E	00	1.0000	PCS	Wheels
3	0*	20-2	BR0201E	00	1.0000	PCS	Handlebar
4	0*	30-2	BR0202E	00	1.0000	PCS	Saddle
5	0	40-1	BR0212E	00	1.0000	M	Rim Wire
6	0	50-1	BS0101E	00	1.0000	PCS	Painted Frame
7	0	60-1	BS0103E	00	1.0000	PCS	Gear Hardware
8	1*	10-2	BR0205E	00	2.0000	PCS	Tire
9	1*	20-2	BR0206E	00	2.0000	PCS	Brake
10	1*	30-1	BR0212E	00	1.0000	M	Rim Wire
11	1	10-1	BS0102E	00	1.0000	PCS	Painted Frame
12	1	10-1	BS0102E	00	1.0000	PCS	Pedal Set
13	1*	20-2	BR0203E	00	0.80000	KG	Paint
14	1*	30-2	BR0203E	00	1.0000	PCS	Bicycle Frame
15	1*	10-2	BR0210E	00	1.2000	M	Wire
16	1*	20-2	BR0211E	00	3.0000	M	Chain
17	1*	10-2	BR0207E	00	2.0000	PCS	Pedal
18	1*	20-2	BR0208E	00	2.0000	PCS	Arm

Table Chart Pivot

Sel: 0 Sum: 0 Ava: 0 Max: 0 Min: 0

Semi Product Semi Product (Explosion Stop) By Product Equivalent By Product

2. The explosion stop of the BOM is structurally shown up to the materials. Which materials are formed from which materials and in what quantities are used can be observed.

6 - Production Template Management Process

6.1 - Production Template

It is used to manage BOM and route applications together; to define the sub-items of a product and the operations in which these sub-items are consumed.

Production Template

Company: 11 Plant: 01 Material: BS0103E-1 Material Description: Valid From: 28.08.2019 Language: E Deleted: ☐

BOM Number: BOM Description: Routing Num.: Route Description:

Update Mip Levels

	Company	Plant	AltNum	Material	BOM Number	Valid From	Valid Until	BOM Category	BOM Description	Routing Num.	Valid From	Valid Until	Routing category	ROU Description
1	11	01	00	BS0103E-1	BS0103E-1	28.08.2019	01.01.2030	1	Gear Hardware	BS0103E-1	28.08.2019	01.01.2030	1	Gear Hardware

Table Chart Pivot

Sel: 14 Sum: 14 Avg: 2.8 Max: 11 Min: 0

1. In BOMT11 transaction, fill the Company and Material number fields, and click the "Search" button. Select the relevant row, and click the "Change" button.

Template Information

Default BOM Values

BOM Category: 1 Min. Lot Size: 0.000

BOM Type: 2 Max. Lot Size: 100,000,000

Construction Dep.: 1 Item Interval: 10

Bom Status: 1

Default ROM Values

Routing category: 1 Min. Lot Size: 0.000

WC Usage: 1 Max. Lot Size: 100,000,000

WC Controller: 001 Item Interval: 10

Routing Status: 1

Items Prod. Network

Template Items

Add Comp. Add Op. Change Operation Expand All

	Unique ID	BOM Item No.	BOM Item T.	BOM Comp. Num.	AltNum	Quantity	Qty Unit	Operation	Work Cen.	WC Desc.	Oper. Control Key	Sequence	Setup Time	S.T. Unit	Machine Time	Machine Time Unit	Labour Time
1	1	0		BS0103E-1	00	1.0000	PCS		0			0	0.00		0.00		0.00
2	2	0				0.0000		10	00001000	Montage - 1	1	10	5.00 MIN		15.00 MIN		15.00 MIN
3	4	10	1	BR0211E	00	2.0000	M		0			0	0.00		0.00		0.00
4	5	20	1	BR0210E	00	2.0000	M		0			0	0.00		0.00		0.00
5	3	0				0.0000		20	00002000	Montage - 2	1	20	0.00 MIN		10.00 MIN		15.00 MIN
6	6	30	1	BR0209E	00	1.0000	PCS		0			0	0.00		0.00		0.00

Table Chart Pivot

Sel: 23 Sum: 1.058 Avg: 105.8 Max: 1,000 Min: 0

2. The **BOMT11 Production Template** transaction allows the users to see the entire production network required for the production of a material in a hierarchical structure on a single table.

Looking at the details of the operation, the properties of the material to be used in the operation, such as the type and quantity can be seen.

Dark blue lines indicate raw materials, gray lines indicate non-active Explosion stop option.

Select the operation and go to its detail with the "Detail" button.

Detail of Items ✓ ✕

BOM Values ROU Values **Operation Values** Component Values

Operation Information

Company: 11 Routing Num.: BS0103E-1 Oper. Control Key: 1
 Plant: 01 Operation: 10 Setup Time Grp Key: 100
 Alternum: 00 Text Key: 100 Setup Type Key: 100
 Material Num.: BS0103E-1 B. Quantity: 1.0000 Unit: PCS Capacity Group:

Activity Time Unit Depend Calculate

Setup Time: SETU 5.0000 MIN No ☐
 Mach. Time: MACH 15.0000 MIN Yes ☒
 Labour Time: LABO 15.0000 MIN Yes ☒
 Act. Type 1: 0.000 No ☐
 Act. Type 2: 0.000 No ☐
 Act. Type 3: 0.000 No ☐

WC Plant: 01 00001000 Desc.: 0001
 Ext Opr.: 0.000 Unit C.Cent.: ☐
 Ext Opr.Factor: 0.000 Unit Not Demontage?: ☐
 Break Time: 0.000 Unit Dem.Setup Time: 0.000
 Max.Wait Time: 0.000 Unit Dem.Mach. Time: 0.000
 Min.Wait Time: 0.000 Unit Labour Time: 0.000

Descriptions

Language Short Desc.

1 E Operation 1
 2 T

Table Chart Pivot Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

3. With the help of this screen, fields such as operation control type, work center, duration of activity types can be changed.

Template Information

Default BOM Values

BOM Categ

1

Min. Lot Size

0.000

BOM Type

2

Max. Lot Size

100,000,000

Construction Dep.

1

Item Interval

10

Bom Status

1

Default ROU Values

Routing category

1

Min. Lot Size

0.000

WC Usage

1

Max. Lot Size

100,000,000

WC Controller

001

Item Interval

10

Routing Status

1

Items

Prod. Network

Template Items

Add Comp.

Add Opr.

Change Operation

Expand All

Unique ID	BOM Item No.	BOM Item T.	BOM Comp. Num.	Alternum	Quantity	Qty Unit	Operation	Work Cen.	WC Desc.	Oper. Control Key	Sequence	Setup Time	S.T. Unit	Machine Time	Machine Time Unit	Labour Time	IL	
1	1	0	BS0103E-1	00	1.0000	PCS	0	0	00001000	Montage - 1	1	0	0.00	0.00	0.00	0.00		
2	2	0			0.0000		10	0			10	5.00	MIN	15.00	MIN	15.00	MR	
3	4	10	1	BR0211E	30	2.0000	M	0			0	0.00		0.00		0.00		
4	5	20	1	BR0210E	00	2.0000	M	0			0	0.00		0.00		0.00		
5	3	0			0.0000		20	0	00002000	Montage - 2	1	20	0.00	MIN	10.00	MIN	15.00	MR
6	6	30	1	BR0209E	30	1.0000	PCS	0			0	0.00		0.00		0.00		

4

Table

Chart

Pivot

Sel: 23

Sum: 131

Avg: 10.917

Max: 100

Min: 0

4. As in the operation detail, changes can be made in the component detail. For this, select the component and click the detail button.

Detail of Items ✓ ✕

BOM Values ROU Values Operation Values **Component Values**

Item Information

Company	11	BOM Number	BS0103E-1	BOM Component Number	BR0210E
Plant	01	Valid From	28.08.2019	BOM Item Num.	20
Altterm	00	Valid Until	01.01.2030	BOM Item Type	1
Material Num.	BS0103E-1	Mat. Desc.		Altterm	00

Qty Unit	M	Explosion Stop	<input checked="" type="checkbox"/> Eng (1)Design(0)
Quantity	2.0000	Variant Dependent	<input type="checkbox"/> Fix Quantity
Fix Quantity	0.0000	By Product	<input type="checkbox"/> Basic Semi Prod.
Scrap Rate	0.000	Sales	<input type="checkbox"/> Recursion Check
ByProd Factor	0.000	Product Costing	<input checked="" type="checkbox"/> Print

Descriptions

Language	Short De...
1 D	Wire
2 E	Wire
3 T	Tel

Table Chart Pivot

Sel: 0 Sum: 0 Avg: 0 Max: 0 Min: 0

5. On the Component Values screen, the component quantity and quantity unit, and product properties can be changed.

Template Information 🖨️ 📄 ✕

Default BOM Values	Default ROU Values
BOM Categ. 1 Min. Lot Size 0.000	Routing category 1 Min. Lot Size 0.000
BOM Type 2 Max. Lot Size 100,000,000	WC Usage 1 Max. Lot Size 100,000,000
Construction Dep. 1 Item Interval 10	WC Controller 001 Item Interval 10
Bom Status 1	Routing Status 1

Items Prod. Network

Template Items

Unique ID	BOM Item No.	BOM Item T.	BOM Comp. Num.	Altterm	Quantity	Qty Unit	Operation	Work Cen.	WC Desc.	Oper. Control Key	Sequence	Setup Time	S.T. Unit	Machine Time	Machine Time Unit	Labour Time
1	1	0	BS0103E-1	00	1.0000	PCS	0	10	00001000	Montage - 1	1	0	0.00	0.00	15.00	15.00
2	2	0			0.0000	M					10	5.00	MIN	15.00	MIN	15.00
3	4	10	BR0211E	00	2.0000	M					9	0.00		0.00		0.00
4	5	20	BR0210E	00	2.0000	M					9	0.00		0.00		0.00
5	3	0			0.0000		20	00002000	Montage - 2	1	20	0.00	MIN	10.00	MIN	15.00
6	6	20	BR0209E	00	1.0000	PCS					9	0.00		0.00		0.00

Table Chart Pivot

Sel: 23 Sum: 205 Avg: 18.636 Max: 200 Min: 0

6. On the Template Information screen, the operation of the desired material can be added. To perform this operation, select the relevant material and press the "Add Operation" button.

Operation - New ☐ Add Continues ✓ ✕

WC Plant	01	Q	Activity	Time	Unit	Depend	Calculate
Oper. Control Key		Q	Setup Time	Q	0.000	Q	No ▾ <input type="checkbox"/>
Work Center		Q	Mach. Time	Q	0.000	Q	No ▾ <input type="checkbox"/>
Description			Labour Time	Q	0.000	Q	No ▾ <input type="checkbox"/>
			Act. Type 1	Q	0.000	Q	No ▾ <input type="checkbox"/>
			Act. Type 2	Q	0.000	Q	No ▾ <input type="checkbox"/>
			Act. Type 3	Q	0.000	Q	No ▾ <input type="checkbox"/>

7. On the Operations screen, fill the relevant information and press the "Confirm" button. The operation can be added in the relevant material on the opened screen.

Template Information Print Save Close

Default BOM Values				Default RDM Values			
BOM Categ.	1	Min. Lot Size	0.000	Routing category	1	Min. Lot Size	0.000
BOM Type	2	Max. Lot Size	100,000,000	WC Usage	1	Max. Lot Size	100,000,000
Construction Dep.	1	Item Interval	10	WC Controller	001	Item Interval	10
Bom Status	1			Routing Status	1		

Items Prod. Network

Template Items Expand All

Unique ID	BOM Item No.	BOM Item T.	BOM Comp. Num.	Alt Item	Quantity	Qty Unit	Operation	Work Cen.	WC Desc.	Oper. Control Key	Sequence	Setup Time	S.T. Unit	Machine Time	Machine Time Unit	Labour Time
1	1	0	BS0103E-1	00	1.0000	PCS	0	0			0	0.00		0.00		0.00
2	2	0			0.0000		10	00001000	Montage - 1	1	10	5.00	MIN	15.00	MIN	15.00
3	4	10	BR0211E	00	2.0000	M	0	0			0	0.00		0.00		0.00
4	5	20	BR0210E	00	2.0000	M	0	0			0	0.00		0.00		0.00
5	3	0			0.0000		20	00002000	Montage - 2	1	20	0.00	MIN	10.00	MIN	15.00
6	6	30	BR0209E	00	1.0000	PCS	0	0			0	0.00		0.00		0.00

Sel: 23 Sum: 205 Ave: 18.636 Max: 200 Min: 0

10. By selecting any operation line and clicking the "add component" button, a component can be added to the relevant route.

Component - New ✓ ✕

☐ Add Continues

BOM Item Num. 40 BOM Item Type

Material Num. Description

Quantity 1.000 Qty Unit

Alternum 00

Item Desc.

Explosion Stop ☐ Sales ☐ Fix Quantity ☐ Eng.(1)/Design(0) ☐

Variant Dependent ☐ Product Costing ☐ Basic Semi Prod. ☐

By Product ☐ Print ☐ Recursion Check ☐

11. New component can be added for the operation by filling the relevant fields in the screen that opens.

Detail of Items ✓ ✕

BOM Values ROU Values Operation Values Component Values

ROU Information

Company	11	Routing Num.	BS0103E-1	Qty Unit	PCS
Plant	01	Valid From	28.08.2019	Min. Lot Size	0.0000
Alternum	00	Valid Until	01.01.2030	Max. Lot Size	100.000.0000
Material Num.	BS0103E-1	Mat Desc.	Gear Hardware	Deleted	<input type="checkbox"/>

Routing category

1	Description	Standard	Routing Type	
WC Usage	1	Description	Standard	Warehouse
WC Controller	001	Description	Üretim Sorumlusu-1	St. Place
Routing Status	1	Description	Standard	Changed No
Item Interval	10			

Descriptions

Language	Short De...
1 D	Gear Har...
2 E	Gear Har...
3 T	Vites Don...

Table Chart Pivot

Sel: 0 Sum: 0 Avo: 0 Max: 0 Min: 0

12. In addition, at the Template Information screen, select the top-level BOM material and click the "Detail" button. The Delete option on the Component Details or Route Values screen is activated and the "save" button is pressed to delete.